2-Bend D3017-1 and D3017-3 tube as per dwg D3017 (DT8598)

5-Assemble and weld as per Dwg D3017 using Welding Jig DT8598

0.00

0.00

3-Drill holes in D3017-5 Using DT8622 -

6-Drill holes in back frame using DT8621

4-Deburr -

QC9- Inspect visual per OSI004- Fusion Welds

Memo

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110

Quality Control

A 13-12-3 (X)

Page 1

Insp.

									DQA:	Date:	
NCR: Yes	/ No			WORK ORDER NO	N-COV	IFORN	MANCE / UP		QA Closed:	Date:	
Work Order:				DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part No.				Rework Scrap Use-as-is Work Order Update		f Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. e/Packaging Supplier	Engineering Quality Other
Root				Description of work order update	e li	nitial	Act	tion	Sign &		· ·
Cause	Date	Step	Qty	or Non-conformance	Ch	ief Eng	Desci	ription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process											
Supplier Training										·	

			FAU	LT CATEGORY		
Landin	g Gear	General		_	 _	
	Bending	Bend		Grain	Ovalized	Pressure/Forced
	Centre Not Concentric to O/S	BOM/Route		Hardware	Over/Under tolerance	Temperature/Cure
	Cracks	Broken/Damaged		Inspection Incomplete	Part Incorrect	Weld
	Crushed/Crimped	Burrs		Instructions Incomplete/Unclear	Part Lost/Missing	Wrong Stock Pulled
[Cuffs	Contamination		Maintenance	Part Moved	
[Heat Treat	Countersink		Mislabeled	Positioned Wrong	
ſ	Inspection Strip in Tube	Cut Too Short		Misread	Power Loss/Surge	Other
Γ	Ripples in Bend	Drill Holes		Offset	 	
Γ	Torque Waves in Extrusion	Drawing		Out of Calibration		
	Turning Sequence	Finish		Out of Sequence		
Ī	Wave/Twist in Tube	Folio		Outside Dimensions		

Unapproved

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0.00

0.00

QC3- Inspect Part Finish

Quality Control

Memo

										i	DQA:	Da	te:	
NCR: Y	Yes /	No				WORK ORDER NON-	COI	NFORM	MANCE / UPDATE				_	
											QA Closed:	Da	te:	
Work Orde	or.					DISPOSITION			AG	AINST DE	PARTMENT,	/PROCESS		
, work orac						Rework]		Skid-tube Cro	sstube	•	Water Jet		Engineering
Part N	No					Scrap]	1	Machining Sm	all Fab	Pro	d. Eng. Coor.		Quality
						Use-as-is	1	E .	- <u>- </u>	nishing	Rec/Sto	re/Packaging	-	Other
NCR N	No					Work Order Update	<u> </u>		Large Fab Com	posite		Supplier		
Root					Descri	ption of work order update	Т	I Initial	Action		Sign &			
Cause	D	ate	Step	Qty		or Non-conformance		nief Eng	Description		Date	Verificatio	n	QC Inspector
Doc/Data			•		-		1	J	<u> </u>					
Equip/Tooling	П						•						.	
Operator														•
Material							1							
Setup														
Other														
Process														
Supplier	Ш													
Training	Ш												l	
Unapproved				<u></u>	<u> </u>		<u> </u>						l	
							AUI	LT CATE	GORY					
Landi	ng Gear					General		Ja .			1		П	D (5)
	— —	nding	_			Bend	-	Grain		ļ	Ovalized		-	Pressure/Forced
	—		Concer	itric to	^{0/s} -	BOM/Route	-	Hardwa		-	Over/Under		$\boldsymbol{\vdash}$	Temperature/Cure
		cks			 	Broken/Damaged	\vdash	-i	ion incomplete	<u> </u>	Part Incorre			Weld
	Cut	ished/Ci	rımped			Burrs	\vdash	Mainte	ions Incomplete/Unclear	-	Part Lost/M Part Moved	_	ш	Wrong Stock Pulled
	$oldsymbol{oldsymbol{ ext{H}}}$	ns at Treat			-	Contamination Countersink	\vdash	Mislabe		-	Positioned V			
1	I lue	at Hedt			1	LCOURTELZHIK	1	LIMITSIADE	ieu		prositioned v	AIOIR		

Misread

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish

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160 QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

MCJ 13-12-05

Insp.

Stamp

Page 3

											DQA:	Date	
NCR:	Yes	/ No				WORK ORDER NON-	COI	NFORM	MANCE / UPI	DATE		·	
											QA Closed:	Date	•
Work Ord	er.					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
WOIR OIG	٠					Rework	1		Skid-tube	Crosstube	1	Water Jet	Engineering
Part 1	No.					Scrap	1		Machining	Small Fab	Pro	d. Eng. Coor.	Quality
	•					Use-as-is	1		noforming	Finishing	4	re/Packaging	Other
NCR I	No.					Work Order Update		ļ	Large Fab	Composite		Supplier	
			,									_	
Root						ption of work order update	1	Initial		tion	Sign &		
Cause		Date	Step	Qty	(or Non-conformance	Ct	nief Eng	Desci	ription	Date	Verification	QC Inspector
Doc/Data	Ш												
Equip/Tooling	Ш												
Operator	Ш												
Material	Ш												
Setup	Ш												
Other	Ш												
Process	Ш												
Supplier													
Training					ļ		Ì						
Unapproved			<u> </u>				<u> </u>					<u>l</u>	<u> </u>
							AUI	LT CATE	GORY				
Landi		1				General		1			1	_	٦
		Bending				Bend	\vdash	Grain		<u> </u>	Ovalized	_	Pressure/Forced
	<u> </u>	Centre N	ot Concei	ntric to	O/S	BOM/Route	<u> </u>	Hardwa			Over/Under		Temperature/Cure
		Cracks			ļ	Broken/Damaged	—	- 1 '	on Incomplete		Part Incorre	 	Weld
	<u></u>	Crushed/	Crimped		<u> </u>	Burrs	_	-	ions Incomplete/	Unclear	Part Lost/M	- L	Wrong Stock Pulled
	_	Cuffs			<u> </u>	Contamination	-	Mainte		<u> </u>	Part Moved		
	<u></u>	Heat Tre			<u> </u>	Countersink	\vdash	Mislabe		<u> </u>	Positioned \		٦٠
l	1	Inspection	n Strip in	Tube		Cut Too Short		Misread	t		Power Loss,	/Surge	Other

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

Ripples in Bend

Turning Sequence Wave/Twist in Tube

Inspection Strip in Tube

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

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Tuesday, November 26, 2013 1:38:51 PM

Work Order ID:

109708

Parent Item:

D3017-041

Parent Item Name:

Seat Back

Start Date: 11/26/2013

Required Date: 12/4/2013

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M4130NT0.750W.083 4130 RD Tube .750 x.083W	, l	Purchased	No			100	f	41.6700	2.458	3	3	13-11.	-2S
	1			Location		Loc Qty	<u>L</u>	oc Code					
	1			MAT033		41.67							
	ļ ,				265450	5				>			
M4120NITO 750NV 040	į			m12	27493	36.67	_						
M4130NT0.750W.049 4130 RD Tube .750 x.049W	<i>!</i>	Purchased	No			100	f	272.6252	11.125	12	0) B-1	ハンダ
				Location		Loc Qty	<u>L</u>	oc Code					:
	ı			MAT033		272.6251893				<u> </u>			•
	ı			123:		2.1217893							~ <u>~</u> }
	!			125: 125:		12.7164 91.614							
	i				7711>	166.173			73				
D3017-11 Cap	ı	Manufactured	No	_		100	Each	70.0000	2		D 13-	<i>II</i> ∙28_	DD
				Location		Loc Qty	<u>L</u>	oc Code					
	-			WA001		70							•
	ı			1049		30							
D2015 5	İ			1060	668	40			2				t
D3017-7 Lug	i	Manufactured	No			100	Each	23.0000	3		3_15	SC11.	_RD
				Location		Loc Qty	<u>L</u>	oc Code					
	i			WA001	996	12 12			3				
	ļ			WA002		11							
	1			1055	568	11							

							•		•		DQA:	Date	e:
NCR:	⁄es	/ No				WORK ORDER NON-C	100	VFORM	AANCE / UPI	DATE	QA Closed:	Date	2.
			 					I			QA Cluseu.	Date	:
Work Orde	. r·					DISPOSITION				AGAINST DE	PARTMENT,	/PROCESS	
WOIK OIG	-					Rework	1		Skid-tube	Crosstube	1	Water Jet	Engineering
Part N	۷o.					Scrap	1 1		Machining	Small Fab	l Pro	d. Eng. Coor.	Quality
	-					Use-as-is			noforming	Finishing	1	re/Packaging	Other
NCR I	No.					Work Order Update]	8	Large Fab	Composite		Supplier	
Root			<u> </u>		Descri	ption of work order update	ı	Initial	Act	tion	Sign &		
Cause		Date	Step	Qty	(or Non-conformance	Ch	nief Eng	Desci	ription	Date	Verification	QC Inspector
Doc/Data										·			
Equip/Tooling									ł				
Operator											*		
Material													
Setup			ļ										
Other	Ш									-			
Process													
Supplier											1		
Training							1						
Unapproved				<u> </u>			L						
						<u> </u>	AUL	LT CATE	GORY				,
Landi	ng G	ear			_	General	_	-			7	_	_
	$\overline{}$	Bending			_	Bend	L	Grain			Ovalized	_	Pressure/Forced
	-	Centre N	ot Conce	ntric to	O/S	BOM/Route	<u></u>	Hardwa			Over/Under	-	Temperature/Cure
	\vdash	Cracks			ļ	Broken/Damaged		-1 `	ion Incomplete		Part Incorre	⊢	Weld
	Ш	Crushed/	Crimped		L	Burrs		4	ions Incomplete/l	Unclear	Part Lost/M	issing	Wrong Stock Pulled
		Cuffs				Contamination	\perp	Mainte		<u></u>	Part Moved		
ļ		Heat Trea			<u></u>	Countersink	\perp	Mislabe	led	L	Positioned \		_
		Inspectio	n Strip in	Tube		Cut Too Short	<u>_</u>	Misread	t		Power Loss/	'Surge	Other
	1	Ripples in	n Bend		i	Drill Holes	1	Offset					

Out of Calibration

Out of Sequence

Outside Dimensions

Ripples in Bend

Turning Sequence

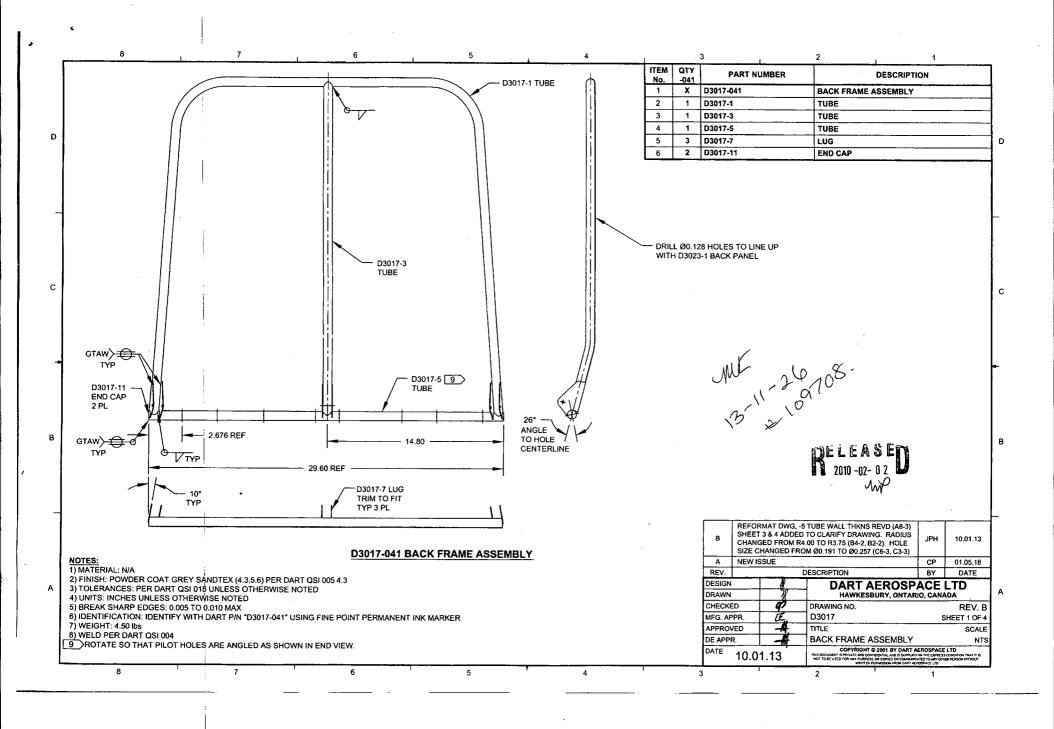
Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

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NCR: Ye	es / No				WORK ORDER NON-	CON	IFORN	MANCE / UPD	ATE			
					•					QA Closed:	Date:	
Work Order	r:				DISPOSITION	_		_	AGAINST DE	EPARTMENT,	PROCESS	
Part No				· 	Rework Scrap Use-as-is Work Order Update		f Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	⊣	Water Jet d. Eng. Coor. e/Packaging Supplier	Engineering Quality Other
Root	T			Descri	ption of work order update	 	nitial	Actio	on	Sign &		
Cause	Date	Step	Ċtу		or Non-conformance	Ch	ief Eng	Descri	ption	Date	Verification	QC Inspector
Ooc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training												
Unapproved		<u> </u>	<u> </u>					CORY				
			·			FAUL	T CATE	GURY				
Landin	Bending Centre No Cracks Crushed/ Cuffs Heat Trea Inspectio Ripples in	Crimped at n Strip in n Bend	Tube		General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		Instruct Mainte Mislabe Misread Offset	ion Incomplete ions Incomplete/U enance eled d	nclear	Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct ssing	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
-	Turning S			n -	Drawing Finish	\vdash	4	Calibration				
	Turning S	equence	!	1	FILII 51	Out of Sequence						

Outside Dimensions

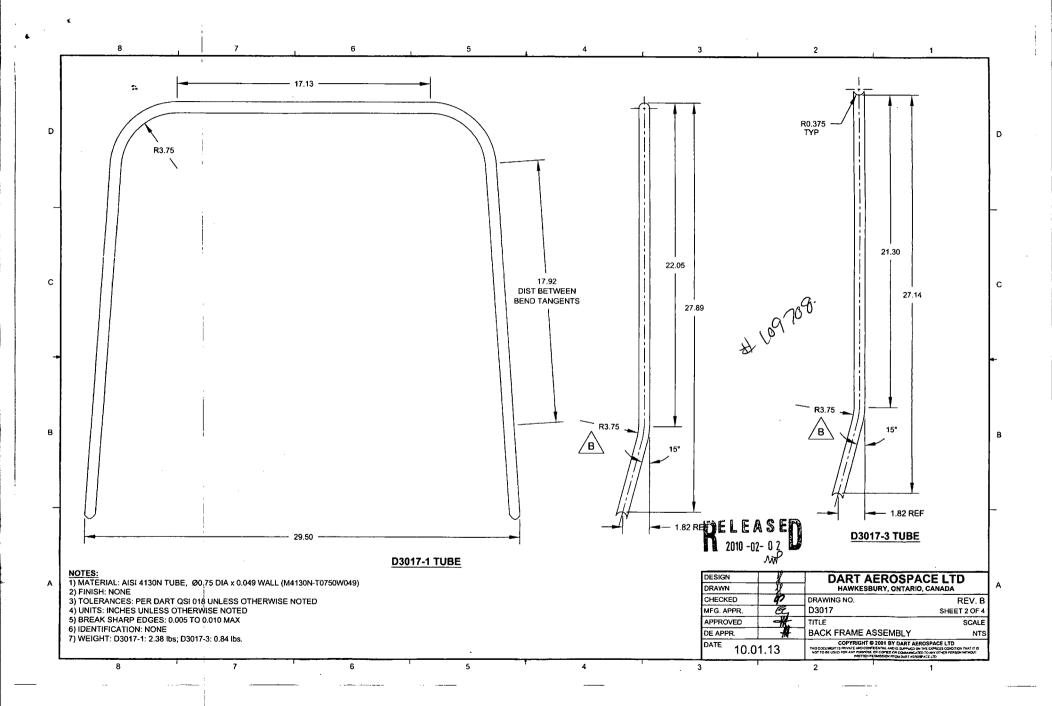
DQA:

Date:

Turning Sequence

Wave/Twist in Tube

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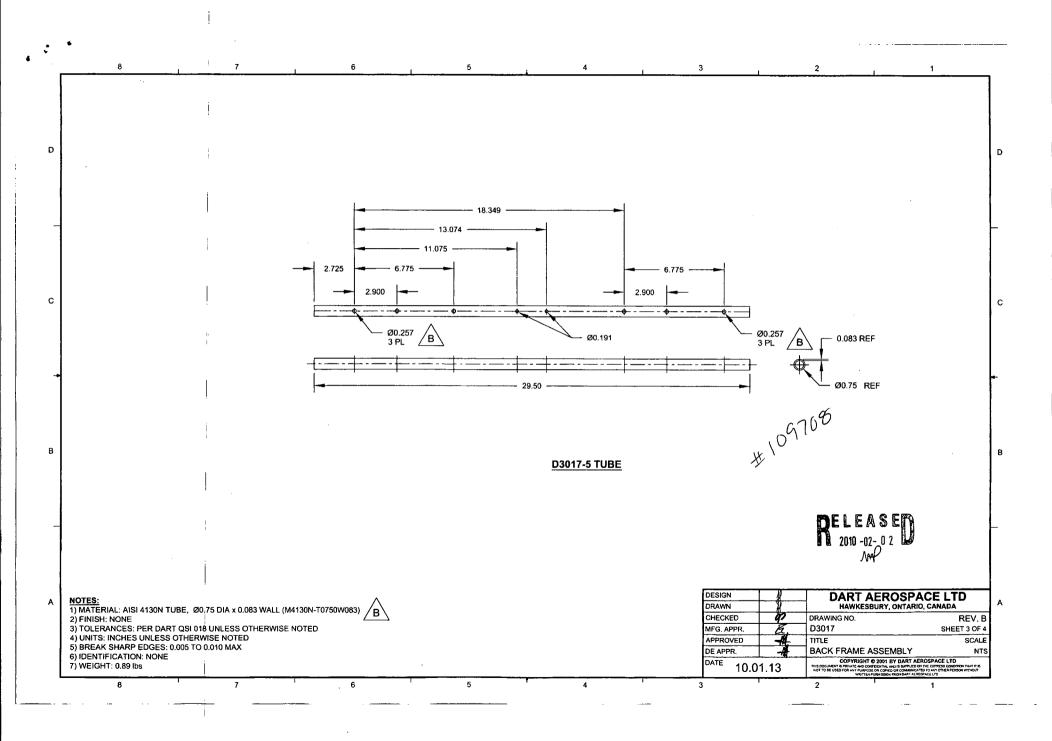


										DQA:	Date:	
NCR:	Yes	/ No				WORK ORDER NON-C	ONFOR	MANCE / UP		QA Closed:	Date:	
Work Orde	er:					DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
Part N	•					Rework Scrap Use-as-is Work Order Update		Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	ł	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root					Descri	ption of work order update	Initial	Act	tion	Sign &		
Cause		Date	Step	Qty	(or Non-conformance	Chief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup										1		

Unapproved **FAULT CATEGORY Landing Gear** General Bend Grain Ovalized Pressure/Forced Bending Temperature/Cure Centre Not Concentric to O/S BOM/Route Over/Under tolerance Hardware Weld Broken/Damaged Part Incorrect Cracks Inspection Incomplete Wrong Stock Pulled Crushed/Crimped Burrs Instructions Incomplete/Unclear Part Lost/Missing Part Moved Cuffs Contamination Maintenance Positioned Wrong Countersink Heat Treat Mislabeled Cut Too Short Misread Power Loss/Surge Other Inspection Strip in Tube Ripples in Bend Drill Holes Offset Torque Waves in Extrusion Out of Calibration Drawing Out of Sequence Turning Sequence Finish Wave/Twist in Tube Folio Outside Dimensions

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Other
Process
Supplier
Training



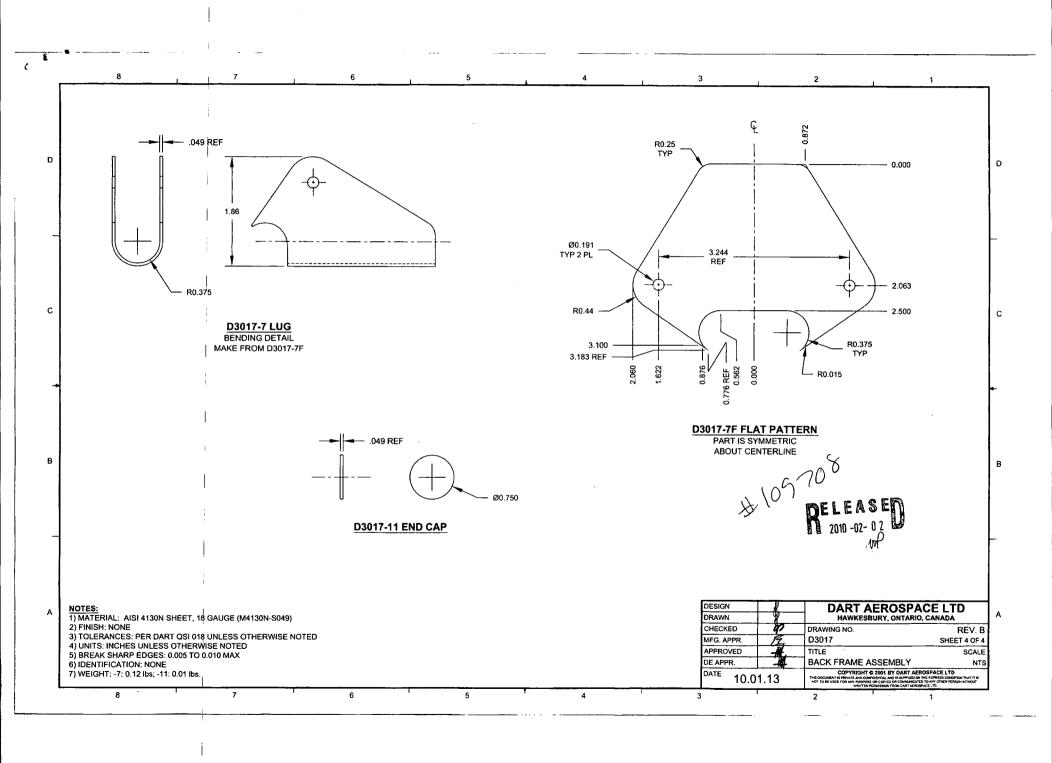
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Date:

NCR: Ye	s / No				WORK ORDER NON-C	ONFO	OKIV	IANCE / UPL	DATE	QA Closed:	Date:	
Work Order					DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part No					Rework Scrap		N	Skid-tube // Machining //	Crosstube Small Fab		Water Jet d. Eng. Coor.	Engineering Quality
NCR No).	.,			Use-as-is Work Order Update	T		oforming Large Fab	Finishing Composite	Rec/Stor	re/Packaging Supplier	Other
Root				Descri	ption of work order update	Initi	ial	Act	ion	Sign &		
Cause	Date	Step	Qty	C	or Non-conformance	Chief	Eng	Descr	iption	Date	Verification	QC Inspector
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Landing	g Gear				General					_		_
	Bending				Bend	Gr	ain			Ovalized		Pressure/Forced
	Centre No	ot Concei	ntric to (o/s	BOM/Route	На	rdwar	re		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	Ins	pection	on incomplete		Part Incorred	ct	Weld
Γ	Crushed/	Crimped			Burrs	Ins	structi	ons Incomplete/L	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination	M	ainte	nance		Part Moved		
	Heat Trea	at			Countersink	Mi	islabel	led		Positioned V	Vrong	_
	Inspectio	n Strip in	Tube		Cut Too Short	Мі	isread			Power Loss/	Surge	Other
Γ	Ripples in	n Bend			Drill Holes	Of	fset					
	Torque W	/aves in E	xtrusion	n	Drawing		ut of C	alibration				
	Turning S	equence			Finish	Or	ut of S	equence				
. [Wave/Tw	ist in Tul	ре	Γ	Folio	Ou	utside	Dimensions				

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NCR:	Yes	/	No

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Work Orde	ŕ:				DISPOSITION				AGAINST D	EPARTMENT	/PROCESS	
Part N	o				Rework Scrap Use-as-is		f Therm	Skid-tube Machining noforming	Crosstube Small Fab Finishing	_	Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other
NCR N	o	• .			Work Order Update	╛┃		Large Fab	Composite		Supplier	
Root		<u> </u>		Descri	ption of work order update		nitial	Acti	on	Sign &	<u> </u>	
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Ţ	Centre N	lot Conce	ntric to O)/S	BOM/Route	П	Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	П	Inspect	ion Incomplete		Part Incorre	ct	Weld
	Crushed	/Crimped			Burrs		Instruct	ions Incomplete/U	Inclear	Part Lost/Mi	issing	Wrong Stock Pulled
Ì	Cuffs				Contamination		Mainte	nance		Part Moved		_
	Heat Tre	at			Countersink		Mislabe	eled		Positioned V	Vrong	_
	Inspection	on Strip in	Tube		Cut Too Short		Misread	t		Power Loss/	Surge	Other
Ī	Ripples i	n Bend			Drill Holes		Offset					
Ī	Torque \	Waves in I	Extrusion		Drawing		Out of	Calibration				
Ī	Turning	Sequence	!		Finish		Out of 9	Sequence				
	Wave/T	wist in Tul	be		Folio		Outside	Dimensions				

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